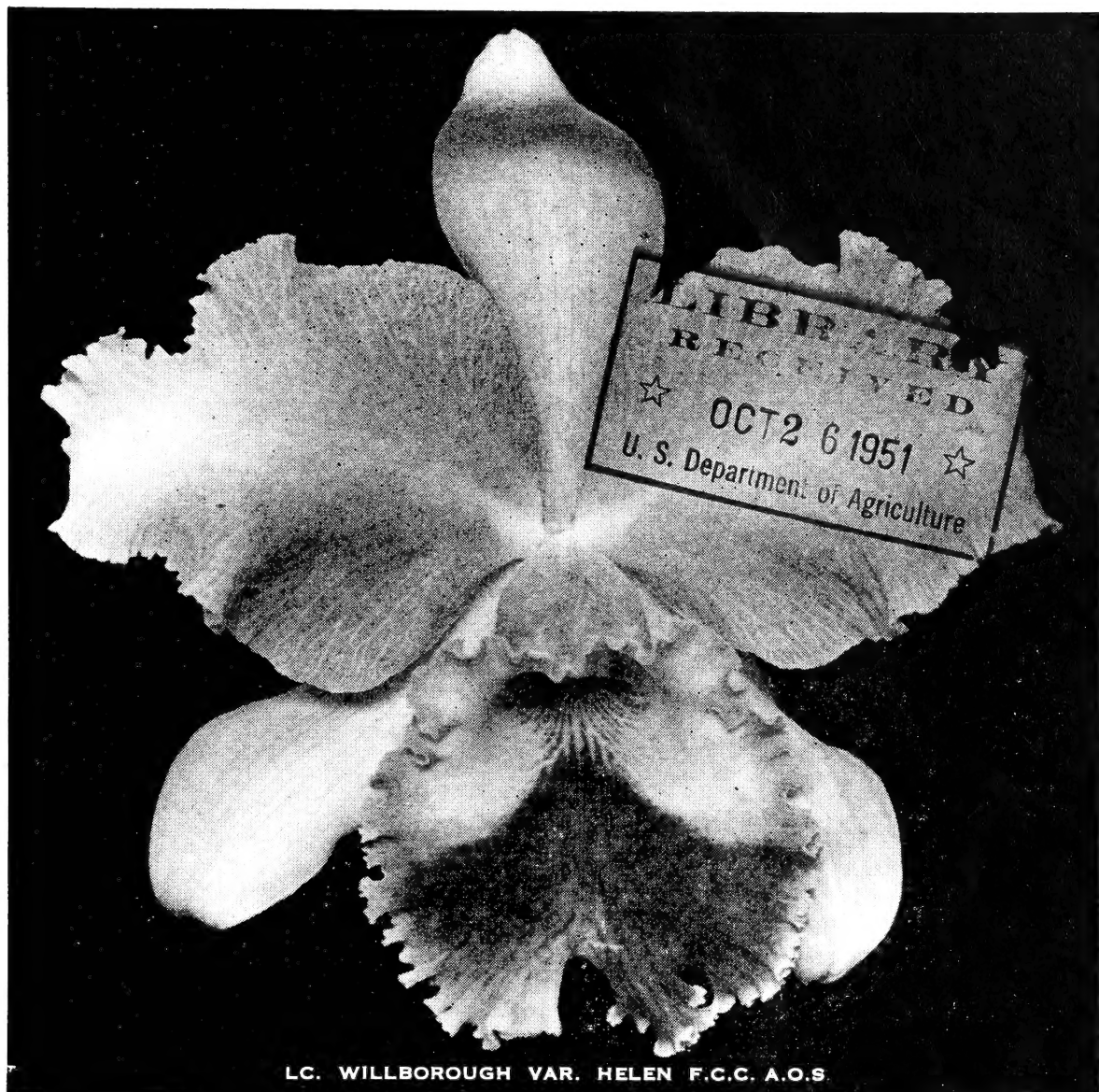


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



ORCHIDS

AND

TROPICAL FOLIAGE PLANTS

FALL SUPPLEMENT—1951

ALBERTS & MERKEL BROS., INC.

South Jacksonville 7, Fla



TEACART FANTASY

- 1 PHILODENDRON PANDURAFORME
- 2 ALSOPHILA AUSTRALIS
- 3 PHILODENDRON BIPINNATIFIDIUM
- 4 PHILODENDRON HASTATUM
- 5 DIEFFENBACHIA BAUSEI

- 6 COCCOLOBIS UVISERA
- 7 ADIANTUM WRIGHTII
- 8 PHILODENDRON DUBIUM
- 9 POTHOS SILVER MOON
- 10 ACUBIA CROTONFOLIA

11 ARALIA SIEBOLDI

FOREWORD

We recently acquired two of the most famous private orchid collections in America and therefore we offer an extensive collection of Dendrobiums, Selenipediums and Vandas. These are among the most desirable of all the many members of the orchid family—possessing robust growth, ease of culture and flowers of exquisite beauty.

The Dendrobiums are remarkably fine and varied—many selected varieties of D. Nobile, hybrids and other species. The Selenipediums — tropical relatives of Cypripediums, robust growing and attractive plants with beautiful lady-slipper flowers. We recommend the Vandas for their long-lasting qualities, varied forms, sweet fragrance, unusual color combinations and numerous blooms.

This affords an unusual opportunity to acquire excellent plants from the finest collections at surprisingly modest prices.

We are also pleased to call your attention to our introduction of some exceptionally fine new foliage plants as well as the best of the old favorites that add so much living charm to home decoration.

These are listed together with some new Cattleya crosses offered for the first time.

INDEX

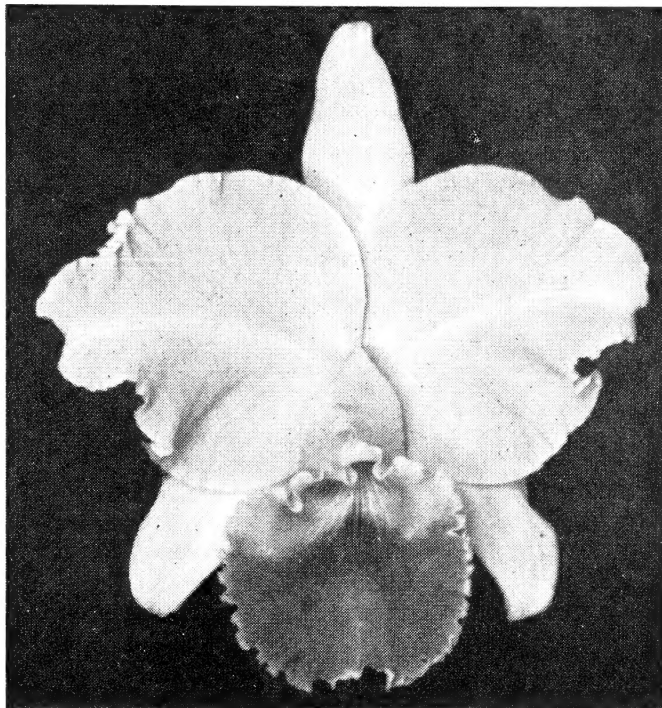
	PAGES
ORCHIDS	
CORRECTIONS TO 1951 SPRING CATALOG	2
CATTELYA HYBRID SEEDLINGS (New Offerings)	3-5
DENDROBIUMS	6-8
V A N D A S	9-11
PHALAENOPSIS	12-13
SELENIPEDIUMS	14
SPECIAL COLLECTIONS - *CHRISTMAS SPECIAL	14
DECORATIVE FOLIAGE PLANTS	
PHILODENDRONS	15-23
PHILODENDRONS - SELF-HEADING TYPE (New)	17-19
PHILODENDRONS - VINE TYPE	19-23
FOLIAGE PLANTS	23-27
INSTRUCTIONS FOR ORDERING FOLIAGE PLANTS	27
INSTRUCTIONS FOR ORDERING ORCHID PLANTS	28
COLOR SLIDES	27
HINTS FOR CULTURE OF HOUSE PLANTS	28

CORRECTIONS TO 1951 SPRING CATALOG

#219	Cattleya A. J. Ruck (selfed). Dark Maroon. flowers	
	2 1/4" pot size	Cancelled
	5 " pot size	\$15.00 each
#766	Blc. Sanford. Fine fall dark Brasso	
	2 " and 2 1/4"	Cancelled
	4 " pot size	\$12.50 each
	5 " pot size	\$17.50 each
#776	Lc. Roberta Off. Good Easter hybrid	
	2 1/2" pot size	\$ 3.50 each
#746	Lc. Frank J. Lind. Exceptionally fine results—Winter	
	1 3/4" pot size	Cancelled
	2 1/2" pot size	\$ 5.00 each
#799	Lc. Florida x Lc. Frank J. Lind Dark. Fall-Winter	
	Community size	Cancelled
#919	Lc. Medon x Lc. Cardinal	
	Community size	Cancelled
	1 3/4" pot size	\$ 2.50 each
#921	C. Snowsong No. 8 x C. Lady Joan var. Model. White-Fall	
	1 3/4" pot size, \$2.00 each; 3 or more	\$ 1.75 each
#932	C. Princess x C. Ruby. Dec.-Jan. Dark	
	Community size	Cancelled
#767	Lc. Wilmooss. Excellent Spring. Lavender	
	2 " and 2 1/4" pot size	Cancelled
	4 " pot size	\$12.50 each
	5 " pot size	\$17.50 each
#763	Lc. Wildine. Nov.-Dec. Lavender	
	2 1/4" pot size	Cancelled
	4 " pot size	\$12.50 each
	5" pot size	\$17.50 each
#790	C. Ballantineana var. Alberts x Lc. Miami var. Glory	
#793	C. Enid (No. 250) X Lc. Miami. Various	
#807	Laelia Tenebrosa var. Charlesworthii AM x C. Dowiana var. Aurea	
#809	C. Enid var. G. West x Lc. Miami	
	Community sizes (above 4 crosses)	Cancelled
#764	Lc. Miami. Fall-Winter. Dark Lavender	
	2 1/4" pot size	Cancelled
	4 " pot size	\$14.00 each
#768	Lc. Helen Wilmer var. Superba x Bc. Imperialis var. Crown— Fine Spring Brasso	
	3 " pot size, \$7.00 each; 3 for	\$18.00
	Oncidium Splendidum. Yellow butterfly spray. Mid-Winter	
	2 1/4" pot size	Cancelled
	3 " pot size	\$3.50 to \$4.00 each

CATTELYA HYBRID SEEDLINGS

NEW OFFERINGS



C. TITRIANAE VAR. PERFECTION

Parent of No. 968

968 C. TITRIANAE VAR. PERFECTION X Lc. FLORIDA VAR. ROYAL—Nov.-Jan.

These seedlings should produce exhibition flowers. The C. TITRIANAE VAR. PERFECTION has perfect Cattleya form. Very broad overlapping petals. Closed tube—Always flowers in December. Crossed with the exceptionally dark Lc. FLORIDA VAR. ROYAL it cannot help bearing superior flowers. (See photograph above)

Community size \$1.00 each

781 Bc. IMPERIALIS X. Lc. FLORIDA—Late fall and winter.

A Brassolaeliocattleya cross to flower from Thanksgiving until after Valentine's Day. The flower size should be large and of rich color and gold areas on the lip. Both parents have broad sepals and petals with heavy texture.

1 $\frac{3}{4}$ " pot size \$2.00 each; 3 or more \$1.75 each

783 C. LABIATA VAR. CHARLESWORTH AM X Lc. CYNTHIA VAR. GRANDIS—Sept.-Nov.

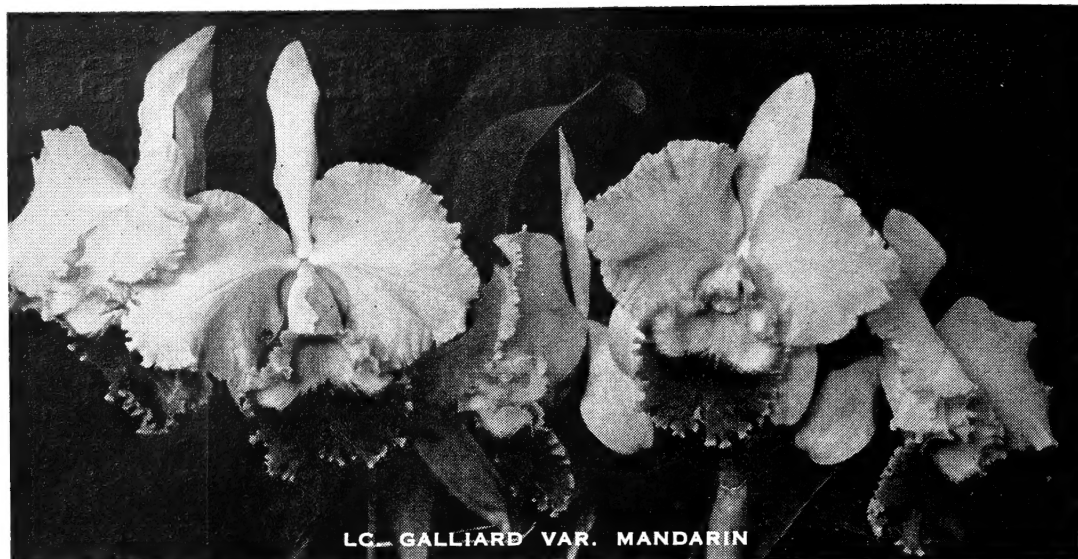
A white colored lip cross at a period when this type is generally scarce. C. LABIATA VAR. CHARLES WORTH AM has clear white sepals and petals with a red lip. Free flowering. Excellent grower. Lc. CYNTHIA VAR. GRANDIS is a superb heavy textured white colored lip of superior character. This cross should prove light controlable at maturity.

1 $\frac{3}{4}$ " pot size \$2.00 each; 3 or more \$1.75 each

985 C. GIGAS IMPERIALIS VAR. JUNE MORN, SELFED—June.

This plant selected from an importation many years ago has proven most dependable for June. We have selfed it to increase the type. The lip is very large and ruffled. The sepals and petals are broad and flat. Will produce 5 and 6 flowers per bulb.

Community size 75c each



Lc. GALLIARD VAR. MANDARIN

Parent of No. 1008

**1008 Lc. MIAMI VAR. SILVER BOWL F.C.C.-A.O.S. X
Lc. GALLIARD VAR. MANDARIN—Late fall-winter.**

This Laeliocattleya hybrid has great possibilities. The Lc. GALLIARD VAR. MANDARIN won best cattleya in the Miami Orchid Show with 7 flowers (see photograph). It normally flowers with 3-4 large flowers per growth. Superb shape and texture and large golden areas on the lip. Fine growing habit. United with the SILVER BOWL VAR. OF MIAMI it should flower around the holiday season and be exhibition quality.

Community size \$1.00 each

986 C. WARNERI VAR. ARDENHOLM X C. DUPREANA — May-June.

This cross will produce many dark flowers at a very desirable period. C. WARNERI VAR. ARDENHOLM is a proven stud plant. This C. DUPREANA produces fine dark flowers with red velvet lips.

Community size 75c each

**967 Lc. BRITANNIA ALBA X C. ENID ALBA VAR. MILDRED —
Season: various.**

White colored lip. (See Spring 1951 catalog.)

Community size 75c each; 1¾" pot size \$2.00 each; 3 or more \$1.75

**981 C. ENID ALBA (C. GIGAS FRAU MELANIE BEYRODT X.
C. MOSSIAE REINECKIANA, Young's Var.)—Winter.**

A repeat of a famous white colored-lip cross.

Community size 75c each

833 Same as 981.

3" pot size \$7.00 each or 3 for \$18.00

3½" pot size \$9.00 or 3 for \$24.00

**1005 Lc. WILBOROUGH VAR. HELEN F.C.C.-A.O.S. X Lc. MIAMI
VAR. SILVER BOWL F.C.C.-A.O.S.—Late fall-winter.**

Both parents won first class certificates flowering in February. The background of each parent has produced prize winners. Both parents have golden areas and rich maroon lips and very dark sepals and petals. (See front cover)

Community size \$1.00 each

PRICES OF COMMUNITY SIZE SEEDLINGS

\$1.00 each or \$20.00 per 3" community pot of at least twenty seedlings
75c each or \$15.00 per 3" community pot of at least twenty seedlings

SPECIAL COMBINATION OF HYBRID SEEDLINGS

- # 1 HSO (75c each) 12 Community size seedlings for \$7.50 (bare root)
- # 2 HSO (75c each) 20 Community size seedlings for \$12.50 (bare root)
- # 9 HSO (\$1.00 each) 12 Community size seedlings for \$10.50 (bare root)
- # 10 HSO (\$1.00 each) 20 Community size seedlings for \$16.00 (bare root)
(all Community sizes are named)
- # 3 HSO 1 $\frac{3}{4}$ " pot size \$2.00 each; 3 or more \$1.75 each
- # 11 HSO One each of 833 C. ENID ALBA WCL - Winter; 763 Lc. WILDINE (LAV. XMAS); 766 Blc. SANFORD (LAV. FALL); 3" pot size - all three plants for \$18.00 (Catalog value \$24.00). Should flower within one or two growths.

(See P. 17 of Spring 1951 Catalog for other Special offerings.)

Wilson's
WATER SOLUBLE
10-10-10

ORCHID FERTILIZER

Formula developed by DR. O. W. DAVIDSON, Research Specialist

Dept. of Horticulture, Rutgers University—N. J. Agricultural Exp. Station

Another *Wilson's exclusive*—a specifically compounded 10-10-10 water soluble fertilizer with suitable amounts of all the trace elements necessary for good orchid growth, both in osmundine and gravel culture.

In tests at the N.J. Agricultural Experiment Station, and by many leading orchid growers, fertilized seedlings gained as much as one year in growth in three years of treatment over unfertilized orchids. Mature plants showed greater health and vigor, developing more new shoots and producing many more flowers per plant.

$\frac{3}{4}$ lb. (trial size) \$1.00; CASE—12, $\frac{3}{4}$ lb. bags \$11.50; 25 lb. Drum \$20.00

ANTI-DAMP

A staple among orchidists to (1) wash the agar when removing seedlings from flasks, (2) drench community pots before seedlings are planted, (3) to control leaf spotting diseases or bacterial wilt on adult plants.

1 Pint \$1.50
Qt. \$2.40 Gal. \$7.85

SLUG-O

Safeguard for seedlings and orchid flowers — remember one petal damaged makes the entire flower worthless. Snails and slugs are attracted to SLUG-O from a considerable distance, they eat it and die on the spot.

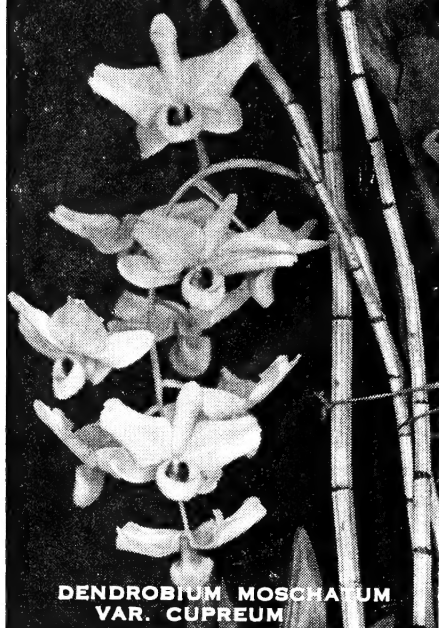
1 lb. \$1.50
4 lbs. \$3.95
(24 lbs.) \$22

SUPER-CIDE

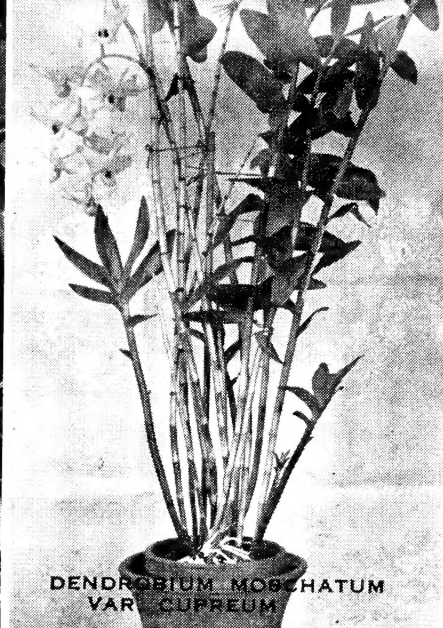
Sure and efficient control for Orchid Scales, Thrips, Dendrobium Weevils, the Orchid Plant Bug, Red Spider and practically all other insects attacking Orchids. Dilute SUPER-CIDE with 100 parts of water only.

1 Pint \$1.75
Gal. \$9.75 5 Gals. \$48.00

F.O.B. Springfield, N.J.; or Jacksonville, Fla.



DENDROBIUM MOSCHATUM
VAR. CUPREUM



DENDROBIUM MOSCHATUM
VAR. CUPREUM



DENDROBIUM CHRYSOTOXUM VAR. SUAVISIMUM



No. 449 DENDROBIUM RAINBOW

DENDROBIUMS

(Tree of Life) (Cane Orchids)

A truly great genus spread over the Old World of India, Burma, Malaya, Java, Philippines and Australia. They produce rod-like, cylindrical pseudo-bulbs varying in height from a few inches to several feet. Hence the name, cane orchids. The leaves attached along the stems are either deciduous or persist for two years or longer. This type produce flowers singly or in groups of two to six from the joints on the side opposite the leaf. (*D. Nobile*.) The evergreen species produce flowers in racemes of from six to twelve flowers from near the terminal of the growth (*D. Phalaenopsis*).

The climate of the Dendrobium regions is warm and humid during the summer and cooler and drier in the winter. This makes them quite adaptable to greenhouse growing in northern temperate zones and out-of-doors in Florida, the Gulf states and southern California. They should be watered frequently during the summer and can be fertilized every two weeks with Wilson's orchid fertilizer and then rested during the late Fall and early Winter months by withholding water but syringing sufficiently to keep canes from shriveling. After resting an increase in water will bring them into flower. Hang them near glass while resting. Dendrobiums may be grown hanging the year around to save bench space. Dendrobiums should be potted in small pots or baskets with osmunda and charcoal and some sphagnum, if available. Do not bury the canes in osmunda. Generally, when growth begins it is rapid; therefore, keep moist while new canes are growing and fertilize every two weeks with Wilson's Orchid Fertilizer.

Dendrobiums have a wide range of color, pure white, lavender, crimson, rich yellow and orange. The flowering season can be extended throughout the year by having different varieties.

449 **D. RAINBOW (D. THWAITESIAE VEITCH'S VAR. X D. SIR. F. MOORE X D. MODEL)—Spring.**

This hybrid made with famous parents has *D. Nobile* like flowers, only larger in size and have a greater range of color, lavender with yellow and bronze overtones. Exceptionally robust grower and canes on largest plants 30" tall. Finest parents obtainable. Flowers up to 4" across. (See photograph)

2" pots \$2.00; 2½" pots \$2.50; 3" pots \$3.50; 4" pots \$5.00
4"-4½"-5" specimens \$7.50, \$10.00, \$12.50

D. PHALAENOPSIS ALBA BEDFORD'S VAR. F.C.C. X. (SELFED)—Sept.-Nov.

A fine pure white strain, long lasting, which has long been sought by collectors. This cross previously tested gave pure white flowers.

2½" pots—flowering size—\$7.50 to \$10.00 each (canes 6"-8" high)

D. MOSCHATUM VAR. CUPREUM (CALCEOLARIA)—April thru July. (See photograph.)

Flowers are bright apricot yellow with the lip darker orange and two maroon spots near the base. The color is rare in orchids. The racemes have as many as 7 to 15 flowers. Flowers last a week to 10 days. Canes 4 to 5 feet tall.

4" pots \$5.00; 5" pots \$7.50; 6" pots \$10.00, \$12.50, \$15.00

D. FIMBRIATUM—March-June.

A very charming bright orange yellow flower. The lip has very finely-cut Fimbriations which are unique. Canes 3 to 4 feet long. Flowers last 2-3 weeks.

D. FIMBRIATUM VAR. OCCULATUM

It has a large maroon red spot on the lip. This variety has not been selected from the others. Therefore customer may receive either D. Fimbriatum or D. Fimbriatum var. Occulatum.

3" pots \$5.00; 4" pots \$7.50 to \$10.00

D. CHRYSOTOXUM (GOLDEN ARCH)—May-June.

Spindle shaped or clavate bulbs 12-15 inches long. Leaves terminal. Flowers 2 inches diameter. Of a rich golden-yellow with orange-yellow disc on lip. Many flowered drooping racemes. An exceptionally fine specie from the plains of lower Burma. (See photograph of D. Chrysotoxum var. Suavissimum - not offered.) Flowers on D. Chrysotoxum. Do not have dark center.

4" pots \$7.50; 5" pots \$10.00-12.50

D. NOBILE

This is a beautiful Spring flowering orchid from Burma. It has been a favorite in orchid collections since the early 1800's. The flowers are lavender with deep purple eyes. Flowers are about 2"-3" across. Nobile can be flowered January through April. Plants should be kept cool and dry during late fall and early winter, then commence watering in January to start buds. By delaying watering, a succession of flowers can be had with different plants for 3 months.

2" pots \$1.50; 2½" pots \$2.00-2.50; 3" pots \$3.00-4.50; 4" pots \$7.50

285 DENDROBIUM PHALAENOPSIS VAR. JO-ANNE X DENDROBIUM PHALAENOPSIS VAR. ROSELAWN—Fall.

286 Is the reverse or reciprocal of cross 285 (both crosses will give same offspring).

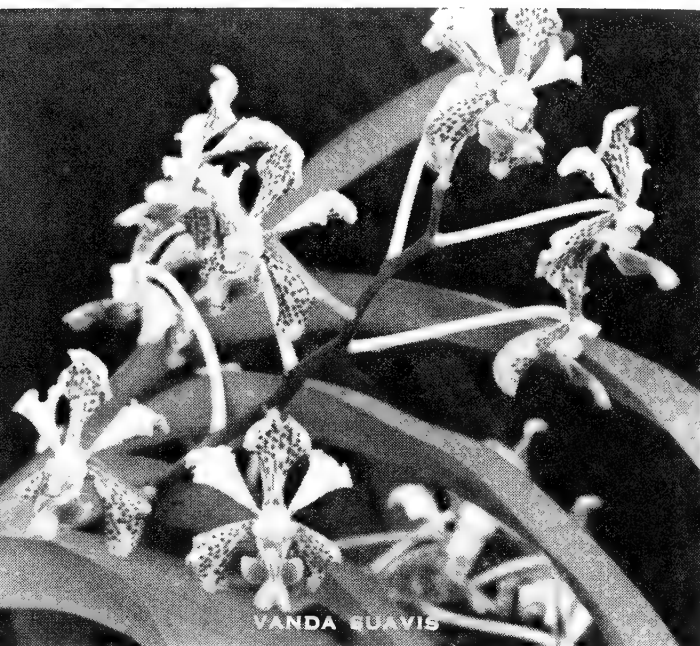
285-286 3" Community pots (over 20 plants)—\$7.50 each

Community size 65c each

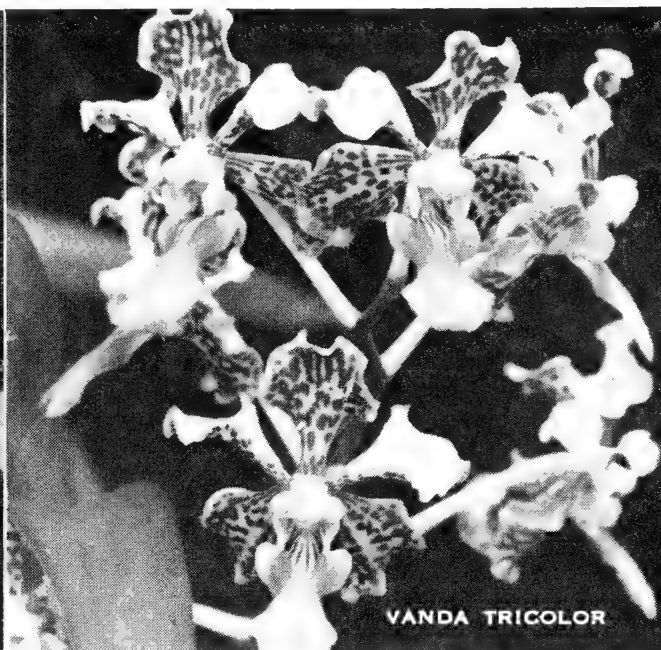
1¾" pot size \$1.00 each

The above two crosses represent the largest strains of Dendrobium Phalaenopsis flowers we know about. The parents have produced canes three to four feet long and as many as three sprays of flowers to a cane. When well grown the canes of previous years will throw flower spikes. This is unusual in the orchid family for previous years growths seldom produce flowers. Do not over pot Dendrobium Phalaenopsis. They like a small pot and good drainage but will take plenty of water when growing. They require the same light as Cattleyas and after reaching maturity can be grown out-of-doors in the summer months. Very adaptable to the Southern States where they can be grown without a greenhouse. They should be brought in when freezing or in low 40's. Mature plants have a dormant period after flowering and may be kept in the house plant window during the winter and then placed out-of-doors in Spring. They commence to flower in September and will continue until Christmas. They rank among the best-keeping orchids. (See photograph, p. 27, 1951 Spring Catalog.)

VANDAS



VANDA SUAVIS



VANDA TRICOLOR

VANDA STRAP-LEAF

VANDA TRICOLOR

Flowers $2\frac{1}{2}$ "-3" in diameter. Sepals and petals are pale yellow densely spotted with bright red-brown. Lip is magenta purple and white. Very fragrant. Long lasting. There are many varietal forms of this species. This collection contained six named varieties. (See photograph)

\$5.00; \$7.50; \$10.00; \$12.50

All flowering size

VANDA SUAVIS

Sepals and petals are white on the back. Front surface freely spotted and barred with rich blood-purple. Lip-rose purple. Fragrant flowers. Blossoms different periods of year. Long lasting. Four sub-varieties have been named. (See photograph.)

\$5.00; \$7.50; \$10.00; \$12.50

All flowering size

Vandas are particularly Asiatic. These monopodial orchids have a single vegetative main stem which grows and extends each year. Generally there is no differentiation from one year's growth to the next. Lateral shoots may come from the central stem. Roots emit from axils of the leaves as do the flower stems. The flower spike comes 3 to 5 leaves below the terminal growth.

Vandas are referred to as strap-leaved (*V. Coerulea*, *Suavis*, *Tricolor*) or Terete (*V. Joaquim-Teres*). The Strap-leaves are shaped like a V which holds water especially near axils, while the terete leaves are completely rolled up and

look like a lead pencil. Hybrids between these two types are referred to as semi-terete.

The Strapleaf Vandas like adequate light but some protection from the noonday sun (half shade). They are grown in baskets or clay flower pans. The container should be broad enough to catch some of the aerial roots. They like to cling to pieces of charcoal, bone or osmunda fibre and should be mulched or fed when growing. A coarse potting media is desirable. May be grown on bench or hanging.

The Terete Vandas require full sunlight to flower well. They are grown as hedges in Florida, Gulf states and the tropics. When plants are grown in a northern climate place them outdoors in summer and mist with water daily. The semi-terete hybrids do best with some shade in the semi-tropics and tropics. The hybrids flower several times a year whereas the species have a definite season of bloom.

The very extensive range of color surpasses every other genus of orchids. Their delicious fragrance is most welcome. The real virtue of the Vanda is the lasting quality of the flowers, some species keeping fresh for three months. The botanical character which establishes the genus is the lip being attached to the column and obtusely spurred.

A well grown and flowered Vanda will bring long-lasting pleasure to any orchid grower. They are being offered at very nominal prices.

VANDA TERETE

VANDA MISS JOAQUIM

Similar in color to V. Teres, but flowers are not as large. It is very desirable because it flowers throughout the year and is a flatter flower than V. Teres for corsage use. Bears 6 to 10 flowers per spike which open in succession. The orchid flower made famous by Hawaii. Both Teretes are long lasting. (See photograph.)

Unpotted rooted cuttings.....	12"-15"	\$1.50
Potted with wooden stick.....	12"-15"	\$2.50
Potted with wooden stick.....	15"-20"	\$4.00
Potted, mounted on cork totems.....	15"-20"	\$5.00

VANDA TERES

This terete Vanda has large flowers 3-4 inches. Sepals and petals pale rose purple often suffused with white. Sepals are vertical and petals horizontal (resemblance to airplane). Lip is large bright rosy-magenta. Heavily veined throat, orange striped and spotted with crimson. Flowers April-June. Hang near glass and keep wet during summer growing season.

4" pot size mounted on wooded stick (15-20") \$4.00

4" pot size mounted on cork (15-20") \$5.00

297 VANDA RUBY (V. TRICOLOR X V. HOOKERIANA) X. VANDA JOAQUIM VAR. JUDITH.

The Vanda Joaquim var. Judith was selected from the first generation of Vanda Joaquim seedlings. It has unusual dark coloring in sepals—petals and lip and large size. The Vanda Ruby also has fine rich color.

Community size 75c each

(See P. 33 of 1951 Spring Catalog for mature hybrid flowering
size Vandas.)



Plant above indicates
size offered for \$5.00.
See page 9.



Above plants being grown
in full sun at Boynton
Beach, Fla.



Vanda, hybr. Pl.

ABSTRACTS *Part 1*

U.S. Census Bureau, 1997; U.S. Census Bureau, 2000; U.S. Census Bureau, 2002).

VANDA MISS JOACHIM, Ridley

Flowers above are shown
approximately half
size.

PHALAENOPSIS



PHALAENOPSIS DORIS VAR. REBECCA A. M. — A. O. S.

PHALAENOPSIS DORIS VAR. REBECCA received an award of merit from the American Orchid Society, Inc., and a plaque for the most outstanding Phalaenopsis spray at the Seventh Annual International Orchid Show at Miami, Florida.

We are proud to offer six excellent pure white Phalaenopsis crosses. All plants used as parents have fine parentage and have won many prizes when exhibited at orchid shows. Every parent plant has exhibited remarkable form, texture, size and good growth habit. We are confident the following crosses will produce superior white flowers.

WHITE PHALAENOPSIS SEEDLINGS

- 320 P. DORIS VAR. REBECCA A. M.—A.O.S. X P. La CANADA VAR. MARTHA**

(See photograph above of P. DORIS VAR. REBECCA.) Both parents are outstanding.

- 322 P. DORIS #AA X.P. ELIZABETHIAE VAR. PALMFIELDS**
(See photograph.)

- 318 P. DORIS # AB X La CANADA VAR. ORCHIDHALL**

- 326 P. LaCANADA VAR. ORCHIDHALL X. P. DORIS VAR. SUPERBA**

- 323 P. KAREN X. P. DORIS**

- 325 P. SUMMER CLOUD VAR. ORCHIDHALL X. P. RIMESTEDIANA VAR. HELVETIA**

Community size \$1.00 each or 12 for \$9.00 (Any 12 your selection)



PHAL. ELIZABETHIAE

P. RIMESTEDIANA—White flowers

P. RIMESTEDIANA—White flowers, mature \$10.00 each

PINK PHALAENOPSIS SEEDLINGS AND MATURE PLANTS

- 227 P. PINK PAMELA—Large, nearly white flowers, good form.
- 228 P. PINK HAWAII—Large pink flowers, good form.
- 232 P. GLORIANA—Medium size, darkest pink flowers, good form.
- 237 P. GLORIOSA—Flowers have unusual, interesting, tessellated markings on lower half of sepal and petals. Excellent grower. Very free flowering.

3" pot size.....	5.00 each
4" pot size.....	6.00 each, with flower spike 7.50 each
5" pot size.....	8.00 each, with flower spike 10.00 each
6" pot size.....	10.00 each, with flower spike 12.50 each

(# 232 is not available in 5" or 6" pots)

Phalaenopsis can be shipped in flower-spikes, in tight buds, only from October through January.

PHALAENOPSIS CONFIRMATION — Large flowers bluish white, heavy production of flowers.

Large plants \$10.00 each — Very large plants \$12.50

SELENIPEDIUMS



SELENIPEDIUMS

This group of orchids from South America, closely akin to the Cypripediums, has always attracted attention because of the unusual form of the petals of the flowers. The petals of the *S. GRANDE VAR. ATRATUM* AND *CAUDATUM* extend downward like streamers for 18 or more inches. The pouch is the same as in Cypripediums. The flowers are borne on rather long stems 18" to 30" with several flowers opening in succession which gives a long period of bloom. The color combinations are extremely varied: greenish-white, bronzy green, rose tints, brown-purple. Veins are usually different color than background. Flowering season, spring and summer. Their culture requires deep shade. Potted with osmunda (brown) and charcoal. Keep moist at all times. Will tolerate much warmer temperatures than Cypripediums.

This famous collection contains thirty-six species, hybrids and varieties. The identifications have been lost. However, the thrill of seeing these strange beautiful flowers is breath-taking.

5" pot size \$5.00 and \$6.00 — 6" pot size \$7.50 and \$10.00
6½" pot size \$12.50

COLLECTION NO. 4

- 1 **SELENIPEDIUM**
- 2 **DENDROBIUM NOBILE**
- 3 **DENDROBIUM YELLOW**
- 4 **DENDROBIUM HYBRID**
- 5 **VANDA SUAVIS or TRICOLOR**

All plants are flowering size.

{ Any two plants for \$9.00
Any three plants for \$15.00
Any five plants for \$22.50

CHRISTMAS SPECIAL

1 Phalaenopsis with flower spike \$7.50 postpaid, U.S.A.

1 Cattleya flowering size \$7.50 postpaid, U.S.A.

or both Phalaenopsis and Cattleya for \$13.50 postpaid, U.S.A.

Shipments will not be made after Dec. 15th for Xmas delivery.



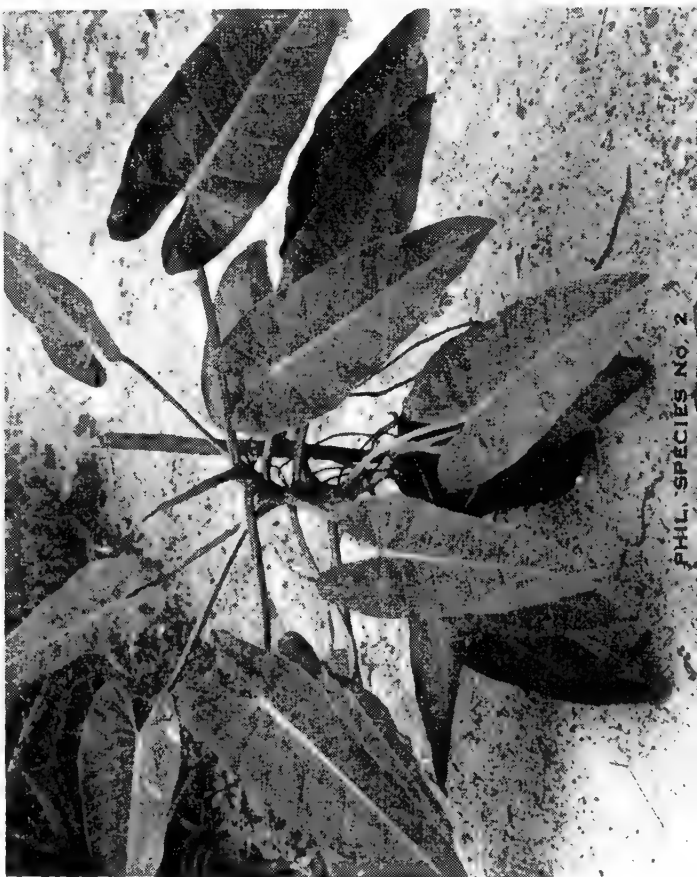
PHILODENDRONS AND OTHER DECORATIVE HOUSE PLANTS

We are extremely happy to announce a list of new top ranking house plants. Foremost on any list of house plants is the Philodendron. It has earned the top rung of the ladder because it can adapt itself to the trying conditions of today's steam-heated and often ultra-dry homes. Likewise, it will stand air-conditioning. The beauty, color and design of the leaves is unsurpassed for modern decoration of interiors whether it be in the home, office or public lounge. The trend of modern architecture demands plants. We are extremely proud of the special introduction of Self-Heading Philodendrons. Here is an entirely new type of growth that has long been needed in Philodendrons. The leaves radiate from the center or crown in a graceful circle of glossy green foliage. You do not need a totem pole or trellis for this type of Philodendron. *P. Wendlandi* and *P. Orlando* can be grown for many years in any home.

We list twenty-five different Philodendrons, all of which are distinctive and attractive. There are an estimated 250 species. We expect to introduce other hybrids and species as the stock becomes available. We refer you to the October issue of the *Flower Grower* magazine for a feature article on *Philodendrons* by M. B. Foster.

Culture: Keep moderately moist. At least one good soaking a week. Intermediate watering if necessary. A mulch of peat or sphagnum moss will prevent excessive surface drying if in a heated home. Cleanse foliage once a month with damp cloth. Feed with fertilizer once a month to maintain good color. (Follow directions on package—apply in solution of water.)

A PHILODENDRON CAN BE GROWN IN EVERY HOME.



PHILODENDRONS

Twenty-Five Different Kinds

Introducing

SELF-HEADING PHILODENDRONS

THE PERFECT HOUSE PLANT

1 PHILODENDRON ORLANDO

(P. Wendlandi X P. Species No. 2)

A hybrid Philodendron crossed between P. WENDLANDI and an unidentified P. species No. 2. One of the most promising hybrids of Philodendron. The leaf character is similar to WENDLANDI but with more stem to the leaf. A truly remarkable introduction. (See photographs. Parents used and 5" pot size.)

4" pot size \$5.00 to \$7.00 each

5" pot size \$7.50 to \$10.00 each

2 PHILODENDRON WENDLANDI

The most sought after Philodendron in recent years of plant exploration. Its compact, rosette, oblong, spatulate, glossy, forest green leaves makes it ideal as a house plant. It does not climb; therefore, each new leaf merely adds to the beauty of the crown. It is rugged, standing extremes of temperature and humidity or drouth. Offered for the first time at a popular price. (See photograph.)

4" pot size \$4.50 to \$6.00 each

5" pot size \$6.50 to \$7.50 each

3 PHILODENDRON FOSTERIANUM

(P. Species No. 1 X P. Bipinnatifidum)

Another spectacular self-heading hybrid with large leaves. This hybrid combines the best characters of P. BIPINNATIFIDUM and the other outstanding Philodendrons species used. The leaf character is intermediate between the two. The leaves are very heavy textured on long stems. Plants are adaptable to use in fireplaces and lounges, in front of glass walls and entrances. A very rugged plant. Will produce as many as 25 large leaves to a head. (See photograph. Parents used and 8" pot size.)

6" pot size \$ 7.50 to \$10.00 each

8" pot size \$12.50 to \$15.00 each

10" pot size \$15.00 to \$20.00 each

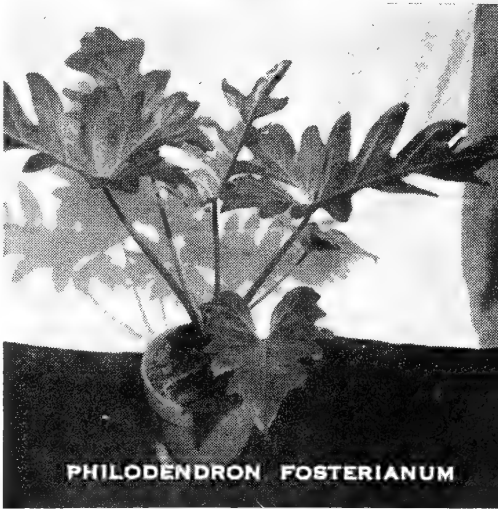
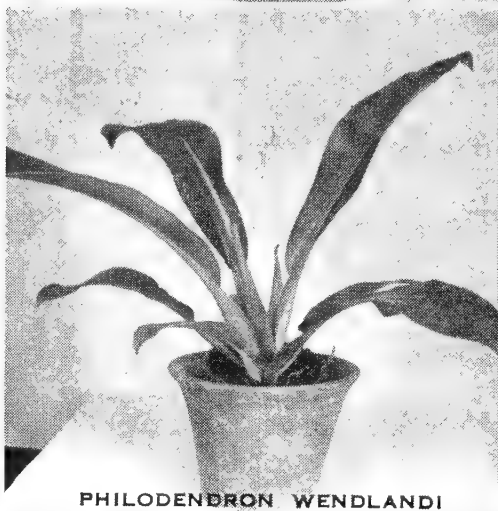
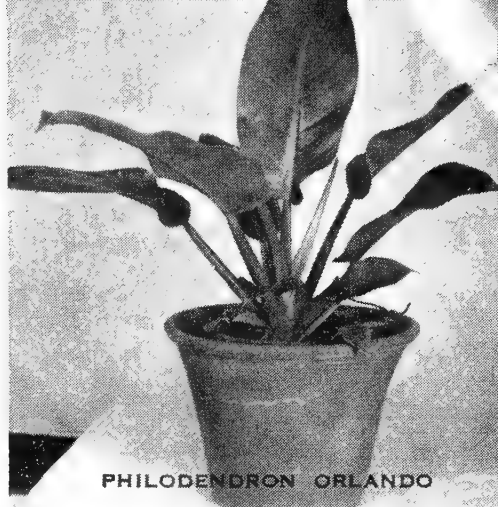
4 PHILODENDRON BIPINNATIFIDUM

A Philodendron from South America that resembles P. DUBIUM only the leaf is about twice the size. It produces a beautiful leaf pattern with the deeply notched leaves. A very tropical effect can be achieved with this plant. (See photograph. Mature plant and 8" pot size.)

6" pot size \$7.50 to \$10.00 each

8" pot size \$12.50 to \$15.00 each

10" pot size \$15.00 to \$20.00 each





PHILODENDRON SELLOUM



PHILODENDRON IMBE



5 PHILODENDRON UNDULATUM

A new introduction which promises to be outstanding from the other self-heading types. The leaves stand very erect on stout stems. The leaf is cordate with waves or undulations on the margin. The silhouette of the leaf is unusual. (See photograph.)

6" pot size \$7.50 each

8" pot size \$10.00-\$12.50 each

6 PHILODENDRON SELLOUM

A Brazilian self-heading Philodendron very popular in California. It is reported as being very cold resistant, tolerating temperatures in the low twenty's. A large leaf-type of robust habit. (See photograph.)

5" pot size \$5.00-\$6.00

8" pot size \$7.50-10.00

VINE TYPE PHILODENDRONS

7 PHILODENDRON CRUENTUM (Redleaf)

One of the most startling colored leaf Philodendrons of the new introductions. The back of the leaf is a clear red mahogany while the top surface is clear green. (See photograph.)

4" pot size \$4.00 each or 3 for \$10.50

8 PHILODENDRON AURITUM

A tri-lobed leaf pattern of dark blue green color which lends itself to totems. The texture of the leaf is very heavy. A new introduction. (See photograph.)

4" pot size \$2.50 each or 3 for \$6.00

9 PHILODENDRON HASTATUM

This Philodendron is rapidly becoming a favorite. The large glossy dark jade leaves give strength of character. A fine totem subject. (See photograph.)

5" pot size \$3.00 each or 3 for \$7.50

10 PHILODENDRON IMBE

Similar to P. HASTATUM in leaf pattern but the underside of leaf is dark maroon in color. Leaves are heavy as Chamois skin. (See photograph.)

5" pot size \$4.00 each or 3 for \$10.50

11 PHILODENDRON PITTIERI

Named for a Frenchman who found it growing in Costa Rica. A new introduction. The petioles attached at top of heart-shaped leaf. Texture of leaf is extremely glossy and heavy. A pleasing color of solid apple green. Beautiful on cork totems. It will tolerate dry conditions very well. (See photograph.)

4" pot size \$2.00 each

5" pot size on cork totem \$3.50 each

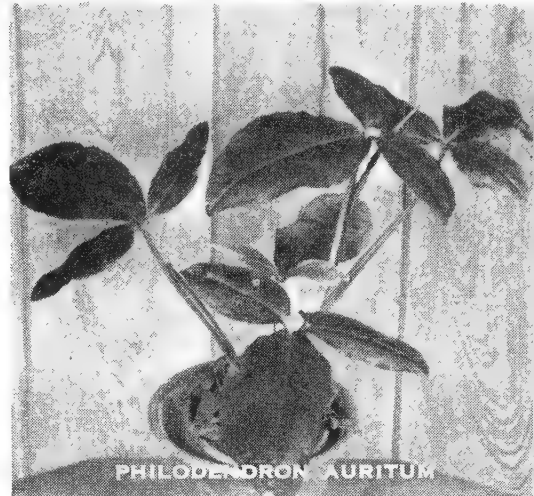
12 PHILODENDRON PERTUSUM

The most popular Philodendron after P. CORDATUM. It is really MONSTERA DELICIOSA. Custom has ordained the immature leaf stage to be called P. PERTUSUM. The leaf variation in pattern is extreme in some stages of growth. When leaves reach full character then it is called MONSTERA DELICIOSA or Bread fruit in the tropics. The fruit is boiled and eaten as a substitute for potatoes. Stands up well under all conditions. (See photograph.)

6" pot size \$4.00 to \$5.00 each



PHILODENDRON
CRUENTUM



PHILODENDRON AURITUM



PHILODENDRON PITTIERI



PHILODENDRON HASTATUM



MONSTERA



PHILODENDRON GLORIOSUM



PHILODENDRON SQUAMIFERUM



PHILODENDRON CRESTIFOLIUM

12A MONSTERA DELICIOSA
(Swiss Cheese Plant)

6" pot size \$4.00 to \$6.00 - (See photograph)

8" pot size \$7.50 to \$10.00

13 PHILODENDRON SQUAMIFERUM

A really exotic plant of spectacular leaf design from French Guiana. Sometimes referred to as anchor leaf. It is shaped like a Malayan Kris. The petiole or stem is covered with red pubescence (hairs). Supply is limited. (See photograph.)

4" pot size (3 to 5 leaves) \$5.00 each

14 PHILODENDRON GUTTIFERUM

Another new Costa Rican Philodendron with medium small, leathery foliage, oblong (with unequal leaf surface each side of main midrib). Carried on wide winged petioles. Will climb or trail.

4" pot size \$3.00 each

15 PHILODENDRON ANDREANUM

The queen of Philodendrons from Colombia suitable only for greenhouse culture or where reasonable humidity can be maintained. The handsome arrow-shaped leaves are velvet iridescent with yellow veins. Best grown on Tree Fern Totems. Well grown specimens will attain leaves 10 inches wide and 3 feet long. Grow moist and warm, feed at least once a month. (See photograph.)

6" pot size on 24" Tree Fern Totem

(3 to 5 leaves) \$10.00 each

16 PHILODENDRON ANDREANUM—
MELANOCHRYSUM Var. Black Gold.

This lovely Philodendron is an exact duplicate of P. ANDREANUM except it does not attain the same leaf size being about 1/3 of the size of the former. (See photograph.)

4" pot size (3-4 leaves) \$5.00

5" pot size with totem tree fern \$7.50 each

17 PHILODENDRON CRESTIFOLIUM

The large solid crenated leaf is a pleasing tropical green. An excellent plant to screen some objectionable scene. Will tolerate neglect. (See photograph)

5" pot size \$3.00 each

18 PHILODENDRON SPECIES

This new Central American Philodendron has not been identified. The color of the leaf is solid green, spear-shaped with short petiole. It is very useful. It grows compact and holds itself erect. Very attractive to use in smaller places where large leaf types would be out of place.

4" pot size \$2.00 each

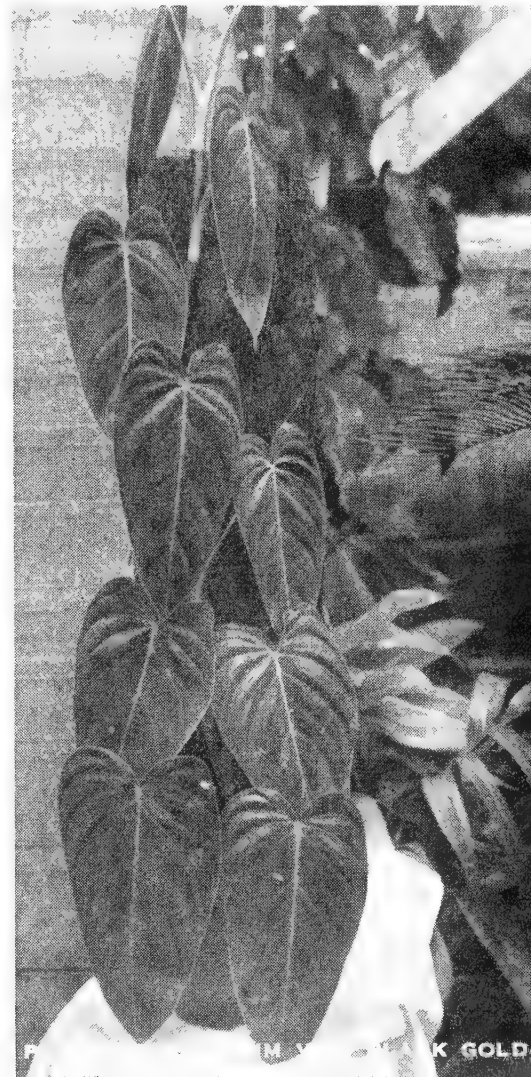
19 PHILODENDRON GLORIOSUM

A charming specimen from Ecuador with large, heart-shaped leaf that has radiating broad ivory veins from the center of the leaf. Velvet texture to the leaf. Leaf stem is long. A slower grower than some Philodendron and does not get out of bounds. (See photograph.)

5" \$3.00 each



P. ANDREANUM





PHILODENDRON PANDURAEFORME



PHILODENDRON DUBIUM



PHILODENDRON MANDIANUM



PHILODENDRON SODIROI

20 PHILODENDRON DUBIUM (Ruffled)

A variation of the star-shaped P. DUBIUM. The leaf is not as cut and the leaf undulates at the margins. Has same good character of DUBIUM. Medium in size.

5" \$3.00 each

21 PHILODENDRON MANDIANUM

This very attractive satin green heart-shaped foliage plant is one of the most attractive of the newer hybrid Philodendrons. The growing tip and stem is of a reddish hue which contrasts beautifully with darker green matured leaves. (See photograph.)

5" \$3.00 to \$4.00 each

22 PHILODENDRON PANDURA-FORME

Here is a truly exotic foliage plant with no two leaves alike. The irregular-shaped leaves of olive green will hold your attention. Unsurpassed for interior decoration. New and rare. (See photograph.)

5" \$3.00 to \$4.00 each

23 PHILODENDRON SODIROI

This is a gem of the smaller heart-shaped leaf type. The coloring is a combination of slate grey with darker olive green areas which gives a silvery mottled effect in shades of green. Stem is a red color. Excellent for the smaller pottery containers and planters in the home or can be planted under orchid benches in the greenhouse for ground cover to help maintain humidity. (See photograph.)

3" pot size \$1.00 each; three for \$2.75

6" pot size totem \$3.50 each

24 PHILODENDRON DUBIUM

This star-shaped leafed Philodendron is hard to beat as a decorative foliage plant. Very hardy and slow enough growing not to get out of bounds. (See photograph.)

4" \$2.00 ea., 3 for \$5.00; 5" \$3.00 ea., 3 for \$7.50

25 PHILODENDRON CORDATUM

A very rugged trailing or climbing vine that may be grown in soil, moss or water. Considered the best of all house plants even under adverse conditions. Large plants with three vines to the pot. (See photograph.)

3" 75c each, 3 for \$2.00

4" \$1.50 each, 3 for \$4.00

COLLINA ELEGANS

This dwarf Palm is a most welcome addition for house plant use. Excellent for coffee or end tables where space is at a premium but where you want a smart effect. The height is approximately eight to ten inches. Every leaf is a true character frond of the palm. A very recent introduction that will find its place among top-notch house plants. (See photograph.)

3" \$1.00 ea. or (Postpaid \$1.50 U.S.A.)

SCHEFFLERA DIGITATA

This plant when a small seedling may be used for dish gardens and planters. It has a very dark green glossy surface to the leaf that appears as if it were waxed. Grown into larger sizes it can take the place of Kentia Palms or similar foliage plants. Very easily grown. (See photograph.)

3" 75c each, 3 for \$2.00

4" \$1.50 each, 3 for \$4.00



PELLIONIA PULCHRA

This lovely vine of the Pacific Islands has very attractive purplish leaves with light green background and black veins. The stems are fleshy with a purple color. Easily grown if kept moist. Another good plant for ground cover under the conservatory benches to help raise humidity. (See photograph on preceding page.)

3" 75c each, 3 for \$2.00

ALSOPHILA AUSTRALIS (Tree Fern) AUSTRALIA

(See photograph.)

This spectacular fern has long been a favorite conservatory specimen. The common name is derived from the fact the fronds form a trunk as the plant ages. The graceful fronds give a tropical effect. Like all ferns it likes to be kept moist and well fed. Orchids grow well on slabs made from the trunk. A very useful adjunct for displaying orchids in the greenhouse or flower show.

5" pot size \$3.50 or three for \$9.00

SYNGONIUM PODOPHYLLUM— TRILEAF WONDER

(See photograph.)

A new Syngonium with glaucous foliage and cream-yellow variegation in center of leaf. Easily grown in soil or water. Can be used in small planters and dish gardens.

3" pot size 75c each

DRACAENA DEREMENSIS BAUSEI (Longii)

A Dracaena not often seen in this large genus of useful house plants. The white bands running lengthwise of the leaf contrast with the rich green background of the rest of the leaf. A welcome addition. (See photograph.)

5" pot size \$3.00 each

ANTHURIUM FORGETII

Similar to A. Crystallinum in leaf pattern but having a peltate leaf. Leaf is entire with leaf-stem attached just off center. The crystal veining throughout the leaf is much more pronounced than others of this type. Grow moist.

4" pot size \$4.00 each

MARANTA KERCHOVEANA VAR. LEUCONEURA

A tropical foliage plant that has flat oval foliage and chocolate areas on both sides of midribs. Because it folds up its leaves at night, it is commonly called the prayer plant.

4" pot size \$1.50 each or 3 for \$3.75

ARALA BALFOURIANA (New Caledonia)

Erect growing plant with rounded leaves coarsely indented and patches of white on margin of leaves.

3" 50c each, 3 for \$1.25



ALSOPHILA
AUSTRALIS



DRACAENA BAUSEI



SYNGONIUM TRI-LEAF WONDER

SAINT PAULIA (African Violets) **RED GIRL or PURPLE GIRL**

Girl Hybrids are outstanding in color and foliage. The leaves are cerated on edges with zones of white in center of leaf. Fine growers.

McFARLAND'S BLUE WARRIOR

An excellent grower with intense dark blue color.

SNOW PRINCE

One of the finest whites yet introduced. Large, clear iridescent white flowers, sea-green foliage.

4" pot size \$2.25 each—Any 3 for \$6.00

POTHOS AUREUS (Joseph's Coat)

A trailing vine with green and yellow mottled leaves.

3" 75c each, 3 for \$2.00

POTHOS AUREUS VAR. SILVER MOON

Very distinctive variegated leaves especially selected for their white marble-like appearance.

3" 75c, 3 for \$2.00

DIEFFENBACHIA PICTA

A very spectacular leaf marking—white spots on a dark green background. Known as the Mother-in-Law plant because native tribes are supposed to have silenced the spouse's chatter by placing the sap under the tongue. (Not recommended as it is toxic to open cuts.)

3" 75c each, 3 for \$2.00, 4" \$1.50 each

DIEFFENBACHIA RUDOLPH ROEHRS .. **(New)**

An unusual leaf coloring—the leaves are a creamy-white with darker green veins.

4" \$2.00, 3 for \$5.50; 5" \$3.00 each

DAVALLIA CANARIENSIS

This beautiful tropical fern from the Canary Islands has lace-like fronds a foot wide and up to 18 inches long. Well adapted to culture in the home. Used to advantage in flower arrangements. (See photograph.)

5" pot size \$2.50 each

SYNGONIUM PODOPHYLLUM HOFF- **MANNI**

(known as Foster's Syngoniuim)

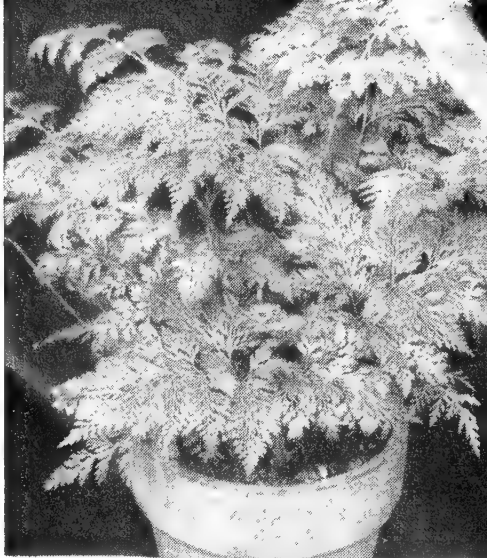
An attractive tropical foliage plant with silver midribs in the leaves. Excellent for dish gardens and to brighten your plant window or living room. (See photograph.)

3" 75c each

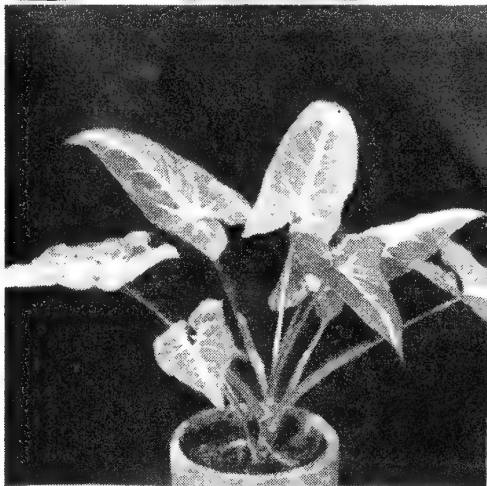
ANTHURIUM CRYSTALLINUM

A handsome foliage plant from South America. Leaves are heart-shaped and will attain 14" long and 10" across (even larger with good culture). The bold silver veins are striking against the dark background of the leaf. Can be grown in leaf mold or Osmunda fibre. Grow moist and feed once a month. (See photograph.)

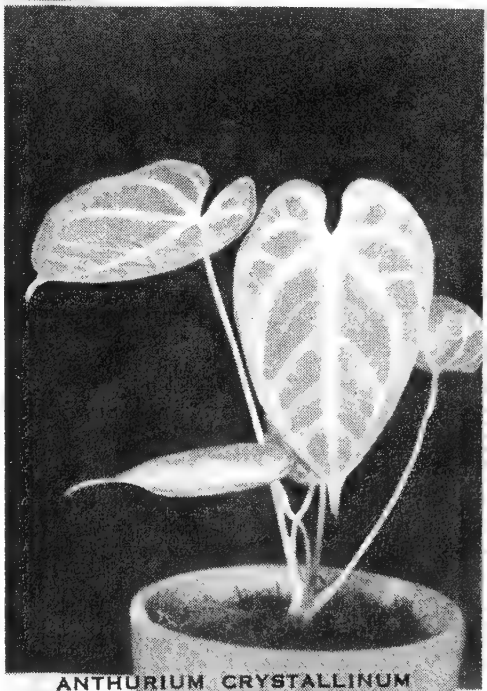
5" \$3.50 each; 6" pot size \$5.00 each



DAVALLIA CANARIENSIS



SYNGONIUM PODOPHYLLUM



ANTHURIUM CRYSTALLINUM



1. PHILODENDRON CRUENTUM 2. POTUS AUREUS 3. PHILODENDRON WENDLANDI



1. PHILODENDRON CORDATUM 3. POTUS SILVERMOO
2. SYNGONIUM HOFFMANI 4. PHILODENDRON MANDALANUM



1. PHILODENDRON WENDLANDI 2. PHILODENDRON FOSTERIANUM



1. PHILODENDRON CORDATUM
2. PHILODENDRON WENDLANDI
3. PHILODENDRON CRUENTUM
4. PHILODENDRON SQUAMIFERUM

PEPEROMIA OBTUSIFOLIA (Wax or Baby Rubber Plant)

Foliage is very succulent, rounded and dark rich green. Erect in habit or will trail on older plants if stems are allowed to droop.

3" 25c or 3 for 65c

4" 50c or 3 for \$1.25

SCHISMATOGLOTTIS (Aglaonema roebelinii) (Malaya)

A tropical foliage plant of distinction with wide pale green leaves and darker areas along the heavy midrib.

4" \$2.00, 3 for \$5.50

5" \$3.00 or 3 for \$8.00

DRACAENA GODSEFFINANA (See photograph)

Exotic among the large group of Dracaena. A free branching habit with rich dark green leaves densely marked with spots of creamy white. Easily grown in the house.

3" 75c, 3 for \$2.00

ADIANTUM TENEREUM VAR. WRIGHTII (Maidenhair Fern)

The graceful fronds of this fern will decorate the orchid house or home with an added touch of green that is hard to surpass. This variety is considered one of the finest in cultivation.

5" pots \$3.00 ea., or 3 for \$7.50—large plants

SPATHYPHYLLUM CANDIDUM

A late spring white flowering nearly trunkless, evergreen herb from South America. It adapts itself to extremes of humidity and temperature. Therefore, makes a fine house plant. The flowers remain for several weeks. The foliage is glossy and remains attractive throughout the year. The plant will excel if grown moist and fed once a month with Wilson's Orchid Fertilizer. Flowers bear resemblance to white anthuriums. (See photograph 1951 Spring Catalog.)

6" pot size \$4.00-\$5.00 each

AGLAONEMA SIMPLEX (Chinese Evergreen)

Grows well in water or soil. Likes plenty of moisture. Showy rich dark green leaves shaped ovate-acuminate. (See photograph)

3" 50c each, 3 for \$1.25

4" 75c each, 3 for \$2.00

DRACAENA SANDERIANA

Glaucous green foliage attractively edged with a border of creamy white. Leaves about 7 to 9 inches long and 1 1/4" wide. (See photograph.)

3" 75c each, 3 for \$2.00

Decorative Plant Orders

Minimum Decorative Plant Order is \$2.00. A packing charge of 50c for all orders of \$10.00 or less. Please send us your plant order and let us confirm it. Then we will indicate correct amount to send us before shipment is made. No C.O.D. Plants shipped via Railway Express—transportation charges collect.

COLOR SLIDES

We have collections of 35 mm. Kodachrome transparency slides on orchids and tropical foliage plants which we shall be glad to loan to orchid societies or garden clubs for programs if you will pay postage or transportation charges.

Hints for Culture of House Plants

Decorative foliage plants and African violets are all excellent house plants. They withstand the shade and warmth of the normal home. While they require less fertilizer than some plants they all require more water than cacti. It is this requirement of moisture that makes FOLIAGE PLANTS so valuable to the health of people living with them. They supply a natural humidity to the home that is needed when homes are heated artificially and without benefit of real air-conditioning.

Watering—This, of course, varies according to the location and type of container they are grown in. By placing your foliage plants in jardinières or glazed pottery (leave plants in red clay pots they were grown in) you will help prevent excessive drying. When plants are watered give them a good drenching under the faucet or immerse them in a bucket of water until the bubbles stop rising from the soil. This will keep pots wet longer and should last two or three days. When clay pots are light in color and pot rings when tapped on the rim they are dry. Of course, plants must always have adequate drainage—if soil is soggy continually the roots will rot off. So check drainage hole in bottom of pot occasionally to see if it is open. Do not water plants with very cold water. It should be room temperature.

Light—Placed near any window they should receive adequate light. Some plants like Philodendron and Chinese Evergreen will tolerate places away from the window for long periods—still all plants will benefit from window light. African Violets do well in an East or Southeastern exposure.

Temperature—Most plants are happiest with a minimum of 60 degrees at night and the day temperature may rise to 85 and 90 without harming them. Of course, these plants will take lower and higher temperatures without damage.

Fertilizing—After 6 months most plants will benefit from mild feeding — especially in Spring and Summer months when most plants grow. Any complete fertilizer will do (Wilson's Orchid Fertilizer, etc.). Do not over-feed, follow directions on package.

Spraying—To keep plants free of insects—inspect the undersides of the leaves at least once a month (or every two weeks) for any suspicious unwanted guests. Generally a sponging off of the foliage with soapy water to which a teaspoonful of nicotine or Black Leaf 40 (to a gallon of water) has been added will act as a cleansing treatment and clean the pores of the leaves. Do not let soil around pot get too saturated with the soap. Use Ivory or mild soaps until you have a fair suds. (Do not use on African Violet leaves—although the nicotine without the soap is all right.

Potting soils—Any good enriched garden soil is satisfactory with some peat added to hold moisture.

SOIL MIXTURE two thirds garden loam (add sand if not friable)
 one sixth dairy manure or organic vegetation (leaf mold)
 one sixth pulverized peat
 add 3" pot of complete fertilizer to wheelbarrow of mixture
 (Vigoro, etc.) and handful of bone-meal.

Reference Books For House Plants

"ENJOY YOUR HOUSE PLANTS" by D. H. Jenkins and H. V. P. Wilson—\$3.00

"THE AFRICAN VIOLET" by H. V. P. Wilson—\$2.75

"GREENHOUSE GARDENING FOR EVERYONE" by Ernest Chabot—\$4.00

ORCHID ORDERING INSTRUCTIONS

We reserve the right to limit quantities sold.

Minimum Orchid order \$5.00. Packing charges are made at cost. Usually \$1.00 per carton or crate. Kindly use the enclosed order blank and fill in the necessary information as this will help us confirm and fill your order promptly. **DO NOT** send money with order. Upon confirmation payment is requested and shipment will be made by method indicated on order blank. It must be remembered that mail shipments must be prepaid and we will estimate these charges when confirming your order. While mail shipment is often the most economical especially for seedlings, you **CAN NOT INSURE** contents against damage or loss. Therefore, we recommend Railway Express in the continental United States if insurance is desired. Foreign shipments *can not* be insured regardless of method of transportation used. All foreign shipments must travel prepaid, and we will estimate charges when confirming your order. We recommend foreign payments in postal money orders.

Damage CLAIMS—We make every effort to pack strong and light. However, our responsibility ends when accepted by carrier. Therefore, when orders are insured by Express and damage occurs, file a claim immediately with your Railway Express agent. We are glad to say that claims have not been frequent with our methods of packing.

We suggest shipments by paper pots to save weight. We can lift community seedlings from clay pots and ship in a paper one. (Only if ordering a 3" community pot intact.)

PLANT REGULATIONS—Be sure to check with local Plant Quarantine Authorities and inform us of any unusual requirements pertaining to shipments of plants into your territory or country. We have fulfilled the necessary plant regulations to handle Hawaiian shipments when the customer forwards his permit with order. This applies to other shipments outside of the United States.

All plants offered in this list are ready for immediate delivery except where noted. We suggest you place your order immediately. If you wish delivery at a later date, we will set your order of plants aside and ship when requested. Address all correspondence to our Main Office, ROUTE 6, BOX 77, JACKSONVILLE 7, FLORIDA, U. S. A.

Our Mailing List

The cost of this catalog is twenty-five cents. The catalog is free to members of Orchid Societies.

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TERMS: CASH UPON CONFIRMATION

SPECIAL OFFERING

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

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Figure 1. The effect of the concentration of the *Agrobacterium* strain on the transformation efficiency of *Agrobacterium* strain 102. The concentration of the *Agrobacterium* strain 102 was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), 10⁹ cells/ml (D), and 10¹⁰ cells/ml (E). The concentration of the *Agrobacterium* strain 102 was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), 10⁹ cells/ml (D), and 10¹⁰ cells/ml (E). The concentration of the *Agrobacterium* strain 102 was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), 10⁹ cells/ml (D), and 10¹⁰ cells/ml (E).

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